

GAP of: us-09-488-265-27 check: 2749 from: 1 to: 437

FROMIG of: /staff/overflow/sdavid-tmp/jul02/ramirez265/US09488265.pep
sequence 27, application us/09488265
general information:
applicant: leimann, martin
applicant: lassen, soeren f
title of invention: improved phylases . . .

to: us-09-684-855-160 check: 1807 from: 1 to: 440

FROMIG of: /staff/overflow/sdavid-tmp/jul02/ramirez265/fetches/US09684855.pep
sequence 160, application us/09684855
general information:
applicant: f. hofmann-la roche ag
title of invention: continuous fermentation process
file reference: c38435/111692 . . .

Symbol comparison table: /sids/appl/gcg/gcgcore/data/rundata/blsum62.cmp
CompCheck: 1102

Gap Weight:	3	Average Match:	2.778
Length Weight:	0	Average Mismatch:	-2.248
Quality:	2318	Length:	440
Ratio:	5.304	Gaps:	1
Percent Similarity:	100.000	Percent Identity:	100.000

Match display thresholds for the alignment(s):

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1 = IDENTITY
: = 2
. = 1

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us-09-488-265-27 x us-09-684-855-160 July 2, 2002 11:26 ..

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1 NSHSCTVDGYQCPEISHLWGQYSPFSLADESAISPDPKGCRTFVQV 50
  |||
  |||
  |||
1 NSHSCTVDGYQCPEISHLWGQYSPFSLADESAISPDPKGCRTFVQV 50
51 LSRHGRVPTSSSKSKYSALIERIOKNATPKGYAPLKITNYTLGADLT 100
  |||
  |||
  |||
51 LSRHGRVPTSSSKSKYSALIERIOKNATPKGYAPLKITNYTLGADLT 100
101 PGENOMVNSGKIFRYRYKALANIVFVYASGSDRYIASAEKIEGFQS 150
  |||
  |||
  |||
101 PGENOMVNSGKIFRYRYKALANIVFVYASGSDRYIASAEKIEGFQS 150
151 AKLADPAHQASPVINVIPEGSGYNTLDHGLCTAFEDST..LGDDAEA 197
  |||
  |||
  |||
151 AKLADPAHQASPVINVIPEGSGYNTLDHGLCTAFEDST..LGDDAEA 197
198 NETAFAPIRIRALEALPGVNLDEDEVNLMDCPDTVARTSDATQISP 247
  |||
  |||
  |||
198 NETAFAPIRIRALEALPGVNLDEDEVNLMDCPDTVARTSDATQISP 247
201 NETAFAPIRIRALEALPGVNLDEDEVNLMDCPDTVARTSDATQISP 250
  |||
  |||
  |||
201 NETAFAPIRIRALEALPGVNLDEDEVNLMDCPDTVARTSDATQISP 250
248 FCDLFTADEMWDYLOSLKYYGYGAGNPLGPAQGVGFENELIARLTHSPVQ 297
  |||
  |||
  |||
248 FCDLFTADEMWDYLOSLKYYGYGAGNPLGPAQGVGFENELIARLTHSPVQ 297
251 FCDLFTADEMWDYLOSLKYYGYGAGNPLGPAQGVGFENELIARLTHSPVQ 300
  |||
  |||
  |||
251 FCDLFTADEMWDYLOSLKYYGYGAGNPLGPAQGVGFENELIARLTHSPVQ 300
298 DHTSTNHTLDSNPATFPPLNATLYADFSHDITWYSIFFALGLYNGTKPLST 347
  |||
  |||
  |||
298 DHTSTNHTLDSNPATFPPLNATLYADFSHDITWYSIFFALGLYNGTKPLST 347
301 DHTSTNHTLDSNPATFPPLNATLYADFSHDITWYSIFFALGLYNGTKPLST 350
  |||
  |||
  |||
301 DHTSTNHTLDSNPATFPPLNATLYADFSHDITWYSIFFALGLYNGTKPLST 350
348 TSVEISIEITDGYAASWTVPFAARAYVEMMOCEAGGGGEGEKEPLVRYLVN 397
  |||
  |||
  |||
348 TSVEISIEITDGYAASWTVPFAARAYVEMMOCEAGGGGEGEKEPLVRYLVN 397
351 TSVEISIEITDGYAASWTVPFAARAYVEMMOCEAGGGGEGEKEPLVRYLVN 400
  |||
  |||
  |||
351 TSVEISIEITDGYAASWTVPFAARAYVEMMOCEAGGGGEGEKEPLVRYLVN 400
398 DRVVPLHGGGVKDLGRCKLDLDFEVLGSFARSGGNMAECFA 437
  |||
  |||
  |||
398 DRVVPLHGGGVKDLGRCKLDLDFEVLGSFARSGGNMAECFA 437
401 DRVVPLHGGGVKDLGRCKLDLDFEVLGSFARSGGNMAECFA 440
  |||
  |||
  |||
401 DRVVPLHGGGVKDLGRCKLDLDFEVLGSFARSGGNMAECFA 440

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GAP of: us-09-488-265-26 check: 9654 from: 1 to: 467

FROMIG of: /staff_overflow/sdavid-tmp/jul02/ramirez265/fetches/US09488265.pep
 sequence 26, application us/09488265
 general information:

applicant: lehmann, martin
 applicant: lassen, soren f
 title of invention: improved phytases . . .

to: us-09-273-871a-9 check: 3 from: 1 to: 467

FROMIG of: /staff_overflow/sdavid-tmp/jul02/ramirez265/fetches/US09273871a.pep
 sequence 9, application us/09273871a
 general information:

applicant: svendsen, allan
 title of invention: phytase variants
 file reference: 5618.500-us . . .

Symbol comparison table: /SIDS/appl/gcg/gcgcore/data/rundata/blosum62.cmp
 CompCheck: 1102

Gap Weight: 3 Average Match: 2.778
 Length Weight: 0 Average Mismatch: -2.248

Quality: 2311 Length: 467
 Ratio: 4.949 Gaps: 0
 Percent Similarity: 94.647 Percent Identity: 93.148

Match display thresholds for the alignment(s):

= IDENTITY
 : = 2
 . = 1

us-09-488-265-26 x us-09-273-871a-9 July 2, 2002 10:56 ..

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1  MGVFVLLSIATLFGSTGTAIGPRNSHSCDVTGQCFPEISHLMGQ 50
  |||
1  MGVFVLLSIATLFGSTGTAIGPRNSHSCDVTGQCFPEISHLMGQ 50
51  YSPFSLADESAISPDVPRKGRVTFVOVLSRHGARYPTSSKSKYSALTE 100
  |||
51  YSPFSLADESAISPDVPRKGRVTFVOVLSRHGARYPTSSKSKYSALTE 100
51  KSPFSLADESAISPDVPRKGRVTFVOVLSRHGARYPTSSKSKYSALTE 100
  |||
101  AIQKNATAFKKRYAFLKTYNTLGGADLTPFEGEQMVNSGIRKFRYKAL 150
  |||
101  AIQKNATAFKKRYAFLKTYNTLGGADLTPFEGEQMVNSGIRKFRYKAL 150
151  ARKIVPFRASGSDRVIASAEKFTGFSQAKIADPGANPHQASPVYINVTI 200
  |||
151  ARKIVPFRASGSDRVIASAEKFTGFSQAKIADPGANPHQASPVYINVTI 200
201  PEGAGYNTLHGLCTAFESEELGDDVFNFTAVFAPFIRARLEAHLPGV 250
  |||
201  PEGAGYNTLHGLCTAFESEELGDDVFNFTAVFAPFIRARLEAHLPGV 250
251  NLTDDEVNLLMDCEPFTVARTSDATQLSPFCDLFTHDEMIQDYDLSLG 300
  |||
251  NLTDDEVNLLMDCEPFTVARTSDATQLSPFCDLFTHDEMIQDYDLSLG 300
301  KYGVGAGNPLGPAQGVGFVNELIARLTHSPVQDHTSTNHTLDSNPATFP 350
  |||
301  KYGVGAGNPLGPAQGVGFVNELIARLTHSPVQDHTSTNHTLDSNPATFP 350
351  LNAATLYADFSHDNTMWSIFFAIGLNGTKPLSTSVESIEETDGYAASWT 400
  |||
351  LNAATLYADFSHDNTMWSIFFAIGLNGTKPLSTSVESIEETDGYAASWT 400
401  VPPARAYVEMQCEAEKEPLRVLVNDRVVPLHGGGVKLGRCRKDDFV 450
  |||
401  VPPARAYVEMQCEAEKEPLRVLVNDRVVPLHGGGVKLGRCRKDDFV 450
451  EGLSFARSGGNWBEQFA 467
  |||
451  EGLSFARSGGNWBEQFA 467
    
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|||||
 451 EGLSFARSGGNWBEQFA 467

GAP of: us-09-488-265-26 check: 9654 from: 1 to: 467

FROMIG of: /staff/overflow/sdavid-tmp/jul02/ramirez265/US09488265.pep
sequence 26, application us/09488265

general information:

applicant: lehmann, martin
applicant: lassen, soeren f
title of invention: improved phytases . . .

to: us-09-343-126b-167 check: 7552 from: 1 to: 441

FROMIG of: /staff/overflow/sdavid-tmp/jul02/ramirez265/fetches/US09343126B.pep
sequence 167, application us/09343126b

general information:

applicant: brugger, roland
applicant: lehmann, martin
applicant: wyss, markus . . .

Symbol comparison table: /SIDS/appl/gcg/gcgcore/data/rundata/biosum62.cmp
Compcheck: 1102

Gap Weight:	3	Average Match:	2.778
Length Weight:	0	Average Mismatch:	-2.248

Quality:	2344	Length:	467
Ratio:	5.315	Gaps:	0
Percent Similarity:	100.000	Percent Identity:	100.000

Match display thresholds for the alignment(s):

1 = IDENTITY
: = 2
. = 1

us-09-488-265-26 x us-09-343-126b-167 July 2, 2002 10:57

```
1 MGVFVVLISATLFGSTGSLGPRGNHSCDVTVDGQYQCFPEISHLWQ 50
1 .....NSHSCDVTVDGQYQCFPEISHLWQ 24
51 YSPFSLADESATS PDVPGKGRVTFVOVLSRHGARYPTSSSKKYSALIE 100
25 YSPFSLADESATS PDVPGKGRVTFVOVLSRHGARYPTSSSKKYSALIE 74
101 AIOKNATAFEGKYAFELKTYNTLGGADLTPEEQOMVNSGKIFYRRYKAL 150
75 AIOKNATAFEGKYAFELKTYNTLGGADLTPEEQOMVNSGKIFYRRYKAL 124
151 ARKIVPEVRASGSDRVATSAEKEFEGFQSAKLADPGANPHQASPVYINVI 200
125 ARKIVPEVRASGSDRVATSAEKEFEGFQSAKLADPGANPHQASPVYINVI 174
201 PEGAGYVNTLDHGLCTAFEESELDGDDVEANFTAVFAPIRARLEAHLPGV 250
175 PEGAGYVNTLDHGLCTAFEESELDGDDVEANFTAVFAPIRARLEAHLPGV 224
251 NLTDEDEVNIMDMCPEDTVARTSDATQLSPCCDLFTHDEWIQYDYLSIG 300
225 NLTDEDEVNIMDMCPEDTVARTSDATQLSPCCDLFTHDEWIQYDYLSIG 274
301 KYGYGAGNPLGPAQGYGFVNELIARLTHSPVOHSTINHTLDSNPATFP 350
275 KYGYGAGNPLGPAQGYGFVNELIARLTHSPVOHSTINHTLDSNPATFP 324
351 LNATLYADFSHDNTMWSIFFALGIYNGTKPLSTSVESIETDGYAASWT 400
325 LNATLYADFSHDNTMWSIFFALGIYNGTKPLSTSVESIETDGYAASWT 374
401 VPPAARAYVEMQCEAEKEPLVRLVNDRVVPLHGGGVKLGRCRKRDDEV 450
375 VPPAARAYVEMQCEAEKEPLVRLVNDRVVPLHGGGVKLGRCRKRDDEV 424
451 EGLSFARSGGNWEECF 467
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|||||||
425 EGLSFARSGGNWEECF 441

GAP of: us-09-488-265-26 check: 9654 from: 1 to: 467

FROMIG of: /staff/overflow/sdavid-tmp/jul02/ramirez265/fetches/US09488265.pep
sequence 26, application us/09488265

general information:
applicant: Lehmann, martin
applicant: lassen, soeren f
title of invention: improved phytases . . .

to: us-09-684-855-163 check: 9494 from: 1 to: 467

FROMIG of: /staff/overflow/sdavid-tmp/jul02/ramirez265/fetches/US09684855.pep
sequence 163, application us/09684855

general information:
applicant: f. hoffmann-la roche ag
title of invention: continuous fermentation process
file reference: C38435/111692 . . .

Symbol comparison table: /SIDS/appl/gcg/gcgcore/data/rundata/biosum62.cmp
Compcheck: 1102

Gap Weight:	3	Average Match:	2.778
Length Weight:	0	Average Mismatch:	-2.248

Quality:	2448	Length:	467
Ratio:	5.242	Gaps:	0
Percent Similarity:	99.143	Percent Identity:	98.929

Match display thresholds for the alignment(s):

1 = IDENTITY
: = 2
- = 1

us-09-488-265-26 x us-09-684-855-163 July 2, 2002 10:53 ..

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1 MGVEVVLSTATLFGSTGTAIGPRGNHSCDVTVDGTYQCFPEISHLWGQ 50
|||||
1 MGVEVVLSTATLFGSTGTAIGPRGNHSCDVTVDGTYQCFPEISHLWGQ 50
51 YSPFFSLADSAISPDVPGKGRVTFVOVLSRHGARYPTSSSKKYSALIE 100
|||||
51 YSPFFSLADSAISPDVPGKGRVTFVOVLSRHGARYPTSSSKKYSALIE 100
51 YSPFFSLADSAISPDVPGKGRVTFVOVLSRHGARYPTSSSKKYSALIE 100
101 AIOKNATAFNGKYAFLEKTYNTLIGADLTPEEQOMVNSGIFKFRYKAL 150
|||||
101 AIOKNATAFNGKYAFLEKTYNTLIGADLTPEEQOMVNSGIFKFRYKAL 150
101 AIOKNATAFNGKYAFLEKTYNTLIGADLTPEEQOMVNSGIFKFRYKAL 150
151 ARKIVPFVRASGSDRVIASAEKFTIEGFSQAKLADPGANPHQASPVINVI 200
|||||
151 ARKIVPFVRASGSDRVIASAEKFTIEGFSQAKLADPGANPHQASPVINVI 200
151 ARKIVPFVRASGSDRVIASAEKFTIEGFSQAKLADPGANPHQASPVINVI 200
201 PEGAGYNNTLDHGLCTAFEESELGDDVEANFTAVFAPPIRAREAHLPGV 250
|||||
201 PEGAGYNNTLDHGLCTAFEESELGDDVEANFTAVFAPPIRAREAHLPGV 250
201 PEGAGYNNTLDHGLCTAFEESELGDDVEANFTAVFAPPIRAREAHLPGV 250
251 NLTDEDVNLMDMCPEDTVARTSDATQLSPECDFTHDEWIQYDYLSLG 300
|||||
251 NLTDEDVNLMDMCPEDTVARTSDATQLSPECDFTHDEWIQYDYLSLG 300
251 NLTDEDVNLMDMCPEDTVARTSDATQLSPECDFTHDEWIQYDYLSLG 300
301 KYGAGAGNPLGPAQGVFNELIARLTHSPVDHTSTNHTLDSNPATFP 350
|||||
301 KYGAGAGNPLGPAQGVFNELIARLTHSPVDHTSTNHTLDSNPATFP 350
301 KYGAGAGNPLGPAQGVFNELIARLTHSPVDHTSTNHTLDSNPATFP 350
351 LNATLYADSFHDNTNVSIFPAGLYNGTKPLSTSVESIEETDGYAASWT 400
|||||
351 LNATLYADSFHDNTNVSIFPAGLYNGTKPLSTSVESIEETDGYAASWT 400
351 LNATLYADSFHDNTNVSIFPAGLYNGTKPLSTSVESIEETDGYAASWT 400
401 VPPAARAYEMOCEAEKEPLVRLVNDRVVPLHGGVDKLGRCRKDDFV 450
|||||
401 VPPAARAYEMOCEAEKEPLVRLVNDRVVPLHGGVDKLGRCRKDDFV 450
401 VPPAARAYEMOCEAEKEPLVRLVNDRVVPLHGGVDKLGRCRKDDFV 450
451 EGLSFARSGGNWECEFA 467
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|||||
451 EGLSFARSGGNWECEFA 467

440	acaaggttggctagaaagattgttccattcaattagagcttctggttt	489
450	gacagagttatttgctctctcgtgaagaagttcaattgaaggtttccaaatctgc	550
460	gaagagatttatctctctcgtcgaagaagttcaattgaaggtttccaaatctgc	539
470	taagttgagcgcacccaggtgctcaaccacaacaaagtttccagttatata	600
480	taagttgagcgcacccaggtgctcaaccacaacaaagtttccagttatata	600
490	taagttgagcgcacccaggtgctcaaccacaacaaagtttccagttatata	589
500	acgttatattccagaagaaggtgcgcgtgttaacaaacaccttggacacggt	650
510	acgttatattccagaagaaggtgcgcgtgttaacaaacaccttggacacggt	639
520	ttgtgtactgcttctcgaagaatctgtgaattgggtgtgaacgaacgttgaagctaa	700
530	ttgtgtactgcttctcgaagaatctgtgaattgggtgtgaacgaacgttgaagctaa	689
540	ctgcacagcgtgtttctgcctccactatagagctgaattggaaagctcaat	750
550	ctgcacagcgtgtttctgcctccactatagagctgaattggaaagctcaat	739
560	ttgccaggtgttaactctgcacgcacgaagacgttgttaactgtatgtgacatg	800
570	ttgccaggtgttaactctgcacgcacgaagacgttgttaactgtatgtgacatg	789
580	ttgccacatgcgaacactttgtctaagaattctgcgcgtacactcaattcttc	850
590	ttgccacatgcgaacactttgtctaagaattctgcgcgtacactcaattcttc	839
600	attctgtgacttctgtcaacacgaagatggattcaatacgaactcttgc	889
610	aactcttggtgaaggtactcgtctgaagcgtgcgcgtgaaccactatgggtcca	950
620	aactcttggtgaaggtactcgtctgaagcgtgcgcgtgaaccactatgggtcca	939
630	gtccaaaggtgttgggttctgtctgaacgaattgatgtcagattgacactc	989
640	gtccaaaggtgttgggttctgtctgaacgaattgatgtcagattgacactc	1055
650	ctcaattcccatggaacgctactcttgaacgaattgatgtcagattgacactc	1100
660	ctcaattcccatggaacgctactcttgaacgaattgatgtcagattgacactc	1088
670	actatggtttctatttctcttcgcttgggttgtgtcaacggtactaaagc	1133
680	actatggtttctatttctcttcgcttgggttgtgtcaacggtactaaagc	1200
690	attgtctactactctcgttggaatctatgtgaagaacactgaacggtttacgctg	1188
700	attgtctactactctcgttggaatctatgtgaagaacactgaacggtttacgctg	1250
710	cttctctggaactgttccatctcgtctgacagaagctgttaagttgaatgtgcaa	1239
720	cttctctggaactgttccatctcgtctgacagaagctgttaagttgaatgtgcaa	1300
730	ttgtgaagcctggaagaagaacacattggttttagagtttgggtttaacgacaagat	1289
740	ttgtgaagcctggaagaagaacacattggttttagagtttgggtttaacgacaagat	1350
750	ttgttccatgtcacggtgtgtgtgtgtgaacaagaattgtgtgtatgaatgaagag	1338
760	ttgttccatgtcacggtgtgtgtgtgtgaacaagaattgtgtgtatgaatgaagag	1400
770	acgactctgtgaaggtttgtcttctgcctagactcgtgtgttaactgggaa	

